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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/771,406	01/26/2001	Abbas Bagasrawala	1	6323
22046 7:	590 04/27/2006		EXAM	INER
LUCENT TECHNOLOGIES INC. DOCKET ADMINISTRATOR 101 CRAWFORDS CORNER ROAD - ROOM 3J-219 HOLMDEL, NJ 07733			SWEARINGEN, JEFFREY R	
			ART UNIT	PAPER NUMBER
			2145	
			DATE MAILED: 04/27/2000	6

Please find below and/or attached an Office communication concerning this application or proceeding.

3	Application No.	Applicant(s)			
•	09/771,406	BAGASRAWALA, ABBAS			
Office Action Summary	Examiner	Art Unit			
	Jeffrey R. Swearingen	2145			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period was realized to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	l. ely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
 Responsive to communication(s) filed on <u>08 February 2006</u>. This action is FINAL. This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i>, 1935 C.D. 11, 453 O.G. 213. 					
Disposition of Claims					
4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 1-20 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access that any objection to the objection to the objection may not request that any objection to the objection is objection is objection to the objection is objection to the objection is objection is objection to the objection is objection is objection is objection to the objection is objection is objection to the objection is objection is objection is objection to the objection is objection is objection is objection to the objection is objection is objection is objection to the objection is objection	vn from consideration. r election requirement. r. epted or b) □ objected to by the B				
Replacement drawing sheet(s) including the correct					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:				

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DETAILED ACTION

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Response to Arguments

- 1. The rejection of claims 1-20 under 35 U.S.C. 112, first paragraph is overcome by Applicant's ...
- 2. The rejection of claim 14 under 35 U.S.C. 112, second paragraph for purposes of antecedent basis is overcome.
- 3. The rejection of claims 1, 2, 8, 9, 10, 14, 16, 18 and 19 under 35 U.S.C. 112, second paragraph is maintained. The term "periodic" is an indefinite term, and one of ordinary skill in the art would suffer the burden of undue experimentation in attempting to implement Applicant's invention based on this claimed term.
- 4. Applicant's argument concerning the Vaid reference is not persuasive. Applicant submitted Vaid failed to disclose a comparison mechanism for comparing a value of said weighted traffic flow per usage with a remainder value of said specific quantity of communications traffic. Vaid, column 10, lines 29-30 dealt with "capacity planning", which would have taken into account a remainder value of said specific quantity of communications traffic. Vaid presented the comparison of traffic flows and their usage. Vaid, column 10, lines 20-23 stated Vaid "compares websites or compares groups of users for usage of bandwidth and frequency of usage." Vaid monitored traffic flows, and obtained a "detailed analysis of Hows and traffic behavior with/without policy enforcement." Column 10, lines 31-32. Vaid had a "control device which provides bandwidth enforcement to ensure that the more important traffic gets through to the network." Column 10, lines 3-5. Traffic was monitored and controlled over a variety of time frequencies. Column 10, lines 35-41. The use of "capacity planning for network resources" when dealing with a "detailed analysis of [traffic] flows and traffic behavior" in a tool that "compares...usage of bandwidth" and "provides bandwidth enforcement to ensure that the more important traffic gets through to the network" is clearly and expressly a comparison mechanism for comparing a value of said weighted traffic flow per usage with a remainder value of said specific quantity of communications traffic.

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Claim Rejections - 35 USC § 112

5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 6. Claims 1, 2, 8, 9, 10, 14, 16, 18, and 19 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 7. The terms "time period" and "periodic" in claims 1, 2, 8, 9, 10, 16, 18, and 19 are relative terms which renders the claims indefinite. These time identifiers are not defined by the claims, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention.

Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 9. Claims 1-2, 6-7, 9-10, 14-15, and 17 are rejected under 35 U.S.C. 102(a) as being anticipated by ¿Vaid et al. (U.S. Patent No. 6,137,777).
- 10. In regard to claim 1, Vaid disclosed a digital processor operable on a periodic basis to calculate a weighted traffic flow per usage for a given network element, said digital processor further including, a comparison mechanism for comparing a value of said weighted traffic flow per usage with a remainder value of said specific quantity of communications traffic, wherein an indication is given by said network element if said remainder value is less than said weighted traffic flow. Vaid performed incoming and outgoing management of information over a computer network. The flows were controlled by time and other values. [column 9, lines 20-29] Time periods for monitoring the importance of traffic [value of said weighted traffic flow per usage] were used to detect problems and compare bandwidth usage over a

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particular segment of the network by a particular group of users based upon frequency of usage. [column 9, line 57 – column 10, line 41]

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- 11. In regard to claim 2, Vaid is applied as in claim 1. Vaid further disclosed said digital processor waits until beginning another time period to calculate another value of said weighted traffic flow per usage to be compared with an updated remainder value. In column 9, line 57 column 10, line 41, Vaid disclosed comparing values of traffic based upon frequency of usage over various periods of time.
- 12. In regard to claim 6, Vaid is applied as in claim 1. Vaid further disclosed said apparatus is used in connection with a communications traffic monitoring application to identify randomly occurring traffic patterns. Vaid detected traffic bursts [column 10, lines 1-5] which is a randomly occurring traffic pattern.
- In regard to claim 7, Vaid is applied as in claim 1. Vaid further disclosed said apparatus is used in connection with a communications network management application to monitor usage of network components. Column 8, line 66 column 9, line 56 disclosed network management using the control of traffic flows and monitoring network performance.
- 14. In regard to claim 9, Vaid disclosed calculating on a periodic basis a weighted traffic flow per usage for a given network element; [column 9, line 57 column 10, line 41] comparing a value of said weighted traffic flow per usage with a remainder value of said specific quantity of communications traffic; [column 9, line 62-66; column 10, lines 16-23] and giving an indication from said network element if said remainder value is less than said weighted traffic flow. Network flows were monitored and alarms and reports were produced. [column 9, lines 20-29]
- 15. In regard to claim 10, Vaid is applied as in claim 9. Vaid further disclosed waiting until beginning another time period to calculate another value of said weighted traffic flow per usage to be compared with an updated remainder value. In column 9, line 57 column 10, line 41, Vaid disclosed comparing values of traffic based upon frequency of usage over various periods of time.
- In regard to claim 14, Vaid is applied as in claim 9. Vaid further disclosed said method is used in connection with a communications traffic monitoring application to identify randomly occurring traffic patterns. Vaid detected traffic bursts [column 10, lines 1-5] which is a randomly occurring traffic pattern.

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In regard to claim 15, Vaid is applied as in claim 9. Vaid further disclosed said method is used in connection with a communications network management application to monitor usage of network components. Column 8, line 66 – column 9, line 56 disclosed network management using the control of traffic flows and monitoring network performance.

18. In regard to claim 17, Vaid is applied as in claim 9. Vaid further disclosed at least a portion of said communications traffic flows between network elements over the public Internet. [column 6, lines 21-38; figure 1]

Claim Rejections - 35 USC § 103

- 19. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 20. Claims 3-5, 11-13, 18, and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vaid in view of Kent et al. (RFC 2401: Security Architecture for the Internet Protocol, November 1998).
- 21. In regard to claim 3, Vaid is applied as in claim 1. Vaid failed to disclose the association of a quantity of traffic with a security association between network elements. Vaid did disclose monitoring the traffic between network elements. Vaid disclosed in column 2, lines 39-46 that a preferred embodiment of the invention involved security management with a firewall. RFC 2401 in section 2.2 disclosed that IPSec was a part of an overall system security architecture. IPSec provided "limited traffic flow confidentiality" (3.1). A Security Association was a fundamental concept to IPSec. (4, 4.1). A security association provided a Security Policy Database which specified certain "minimum management functionality". (4.4.1) Since IPSec was a part of an overall security architecture, and provided a database which specified "minimum management functionality" (quantity value) and Vaid provided traffic management for a security device such as a firewall, it would have been obvious to one of ordinary skill in the art at the time of the

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invention to combine the teachings of RFC 2401 with the Vaid invention to allow for increased security by the use of IPSec with a traffic management system.

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- 22. In regard to claim 4, Vaid in view of Kent is applied as in claim 3. Kent further disclosed said indication given from said network elements prompts renegotiation of another SA. In section 4.4.3, Kent disclosed the refreshing of an expired SA based upon a "warning" to initiate action such as setting up a replacement SA. (page 22 of RFC; page 20 of printout)
- 23. In regard to claim 5, Vaid in view of Kent is applied as in claim 3. As shown previously in the rejection of claim 3, the combination of Vaid in view of Kent utilized a security association based upon the IPsec standard.
- In regard to claim 11, Vaid is applied as in claim 9. Vaid failed to disclose the association of a quantity of traffic with a security association between network elements. Vaid did disclose monitoring the traffic between network elements. Vaid disclosed in column 2, lines 39-46 that a preferred embodiment of the invention involved security management with a firewall. RFC 2401 in section 2.2 disclosed that IPSec was a part of an overall system security architecture. IPSec provided "limited traffic flow confidentiality" (3.1). A Security Association was a fundamental concept to IPSec. (4, 4.1). A security association provided a Security Policy Database which specified certain "minimum management functionality". (4.4.1) Since IPSec was a part of an overall security architecture, and provided a database which specified "minimum management functionality" (quantity value) and Vaid provided traffic management for a security device such as a firewall, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of RFC 2401 with the Vaid invention to allow for increased security by the use of IPSec with a traffic management system.
- 25. In regard to claim 12, Vaid in view of Kent is applied as in claim 11. Kent further disclosed said indication given from said network elements prompts renegotiation of another SA. In section 4.4.3, Kent disclosed the refreshing of an expired SA based upon a "warning" to initiate action such as setting up a replacement SA. (page 22 of RFC; page 20 of printout)

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26. In regard to claim 13, Vaid in view of Kent is applied as in claim 11. As shown previously in the rejection of claim 11, the combination of Vaid in view of Kent utilized a security association based upon the IPSec standard.

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- 27. In regard to claim 18, Vaid disclosed performed incoming and outgoing management of information over a computer network. The flows were controlled by time and other values. [column 9, lines 20-29] Time periods for monitoring the importance of traffic [value of said weighted traffic flow per [usage] were used to detect problems and compare bandwidth usage over a particular segment of the network by a particular group of users based upon frequency of usage. [column 9, line 57 - column 10, line 41] Vaid failed to disclose the association of a quantity of traffic with a security association between network elements. Vaid did disclose monitoring the traffic between network elements. Vaid disclosed in column 2, lines 39-46 that a preferred embodiment of the invention involved security management with a ifirewall. RFC 2401 in section 2.2 disclosed that IPSec was a part of an overall system security architecture. IPSec provided "limited traffic flow confidentiality" (3.1). A Security Association was a fundamental concept to IPSec. (4, 4.1). A security association provided a Security Policy Database which specified certain "minimum management functionality". (4.4.1) Kent further disclosed said indication given from said network elements prompts renegotiation of another SA. In section 4.4.3, Kent disclosed the refreshing of an expired SA based upon a "warning" to initiate action such as setting up a replacement SA. (page 22 of RFC; page 20 of printout) Since IPSec was a part of an overall security architecture, and provided a database which specified "minimum management functionality" (quantity value) and Vaid provided traffic management for a security device such as a firewall, it would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of RFC 2401 with the Vaid invention to allow for increased security by the use of IPSec with a traffic management system.
- 28. In regard to claim 20, Vaid in view of Kent is applied as in claim 18. As shown previously in the rejection of claim 18, the combination of Vaid in view of Kent utilized a security association based upon the IPSec standard.

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Allowable Subject Matter

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29. Claims 8, 16, and 19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

30. The following is a statement of reasons for the indication of allowable subject matter: The equation listed by applicant involving the multiplication of the average use of a network element per period multiplied by the average communications traffic quantity per use is distinguished over the prior art.

Conclusion

31. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

.32.	Teraslinna	US 5,623,492
33.	Teraslinna	US 5,706,279
34.	Shimojo et al.	US 5,787,072
35.	Teraslinna	US 5,812,525
.36.	Bertin et al.	US 6,011,804
¹ 37.	Worster	US 6,028,840
38.	Vaid et al.	US 6,078,953
39.	Jamp et al.	US 6,320,846 B1
40.	Davis et al.	US 6,385,168 B1
.41. د	Galand et al.	US 6,424,624 B1
42.	Dillon et al.	US 6,473,793 B1
43.	Chen et al.	US 6,487,170 B1
44.	Vaid et al.	US 6,502,131 B1
45.	Rakoshitz et al.	US 6,578,077 B1

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46. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey R. Swearingen whose telephone number is (571) 272-3921. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Jason Cardone can be reached on 571-272-3933. The fax phone number for the organization where this

application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jason Cardone

Supervisory Patent Examiner

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